Abstract of the Disclosure

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The present invention relates to a new immortalized hepatocyte culture of human (preferably human fetal) normal a method of producing said culture, a cell origin, screening method for a compound or a salt thereof which inhibits or promotes an enzyme activity involved in the metabolism of xenobiotics in the liver, or which inhibits or promotes the expression of a gene encoding an enzyme involved in the metabolism of xenobiotics in the liver, or which inhibits or promotes the induction of expression of a gene encoding an enzyme involved in the metabolism of xenobiotics in the liver, characterized by the use of said culture, a compound which inhibits or promotes an enzyme activity involved in the metabolism of xenobiotics in the liver, a compound which inhibits or promotes the expression of a gene encoding an enzyme involved in the metabolism of xenobiotics in the liver, or a compound which inhibits or promotes the induction of expression of a gene encoding an enzyme involved in the metabolism of xenobiotics in the liver, obtained using said screening method, or salts thereof.

The immortalized hepatocyte culture of human normal cell origin of the present invention is useful in, for example, screening for compounds or salts thereof having therapeutic/preventive effects on hepatic insufficiency.

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国際調査報告書

NOVEL IMMORTALIZED HEPATIC CELL LINE ORIGINATING IN HUMANS (54) Title:

新規ヒト由来不死化肝細胞株 (54)発明の名称

(57) Abstract

A novel immortalized hepatic cell line originating in normal human (preferably human fetal) cells; a process for producing this cell line; a method for screening compounds or salts thereof capable of inhibiting or promoting the activity of an enzyme participating in the metabolism of a biological foreign matter in the liver, inhibiting or promoting the expression of a gene encoding an enzyme participating in the metabolism of a biological foreign matter in the liver, or inhibiting or promoting the induction of the expression of a gene encoding an enzyme participating in the metabolism of a biological foreign matter in the liver, characterized by using the above-mentioned cell line; and compounds capable of inhibiting or promoting the activity of an enzyme participating in the metabolism of a biological foreign matter in the liver, compounds capable of inhibiting or promoting the expression of a gene encoding an enzyme participating in the metabolism of a biological foreign matter in the liver, compounds capable of inhibiting or promoting the induction of the expression of a gene encoding ar enzyme participating in the metabolism of a biological foreign matter in the liver, or salts of these compounds obtained by the above screening method. The above cell line is useful in, for example, screening compounds having preventive/therapeutic effects on liver failure.